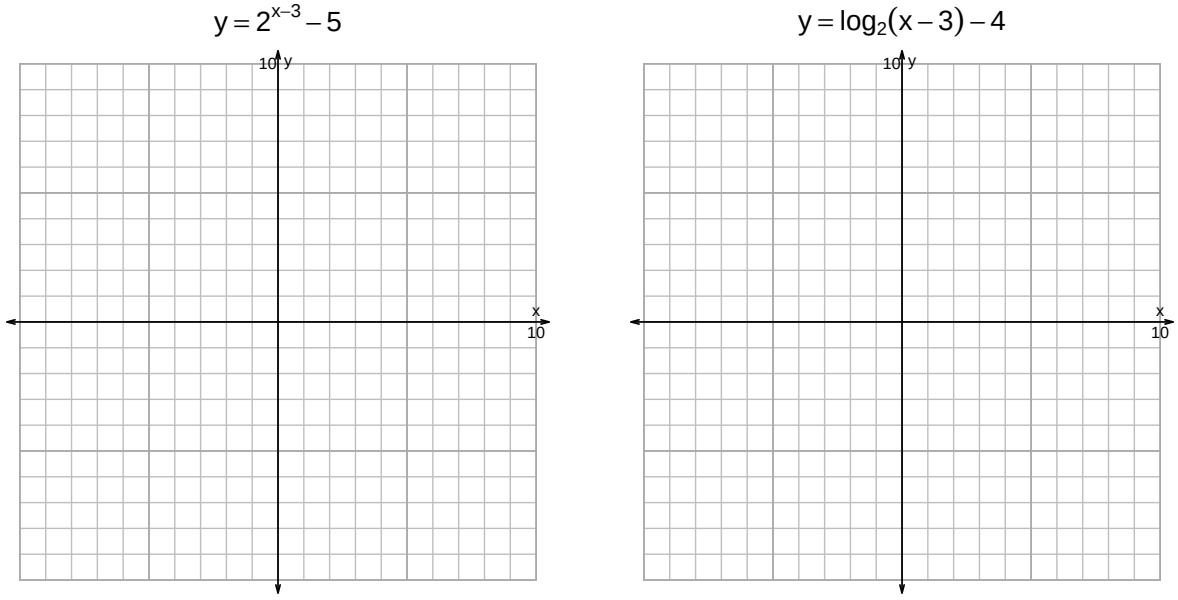
Name: Date:

s18quiz: EXP LOG (Practice v127)

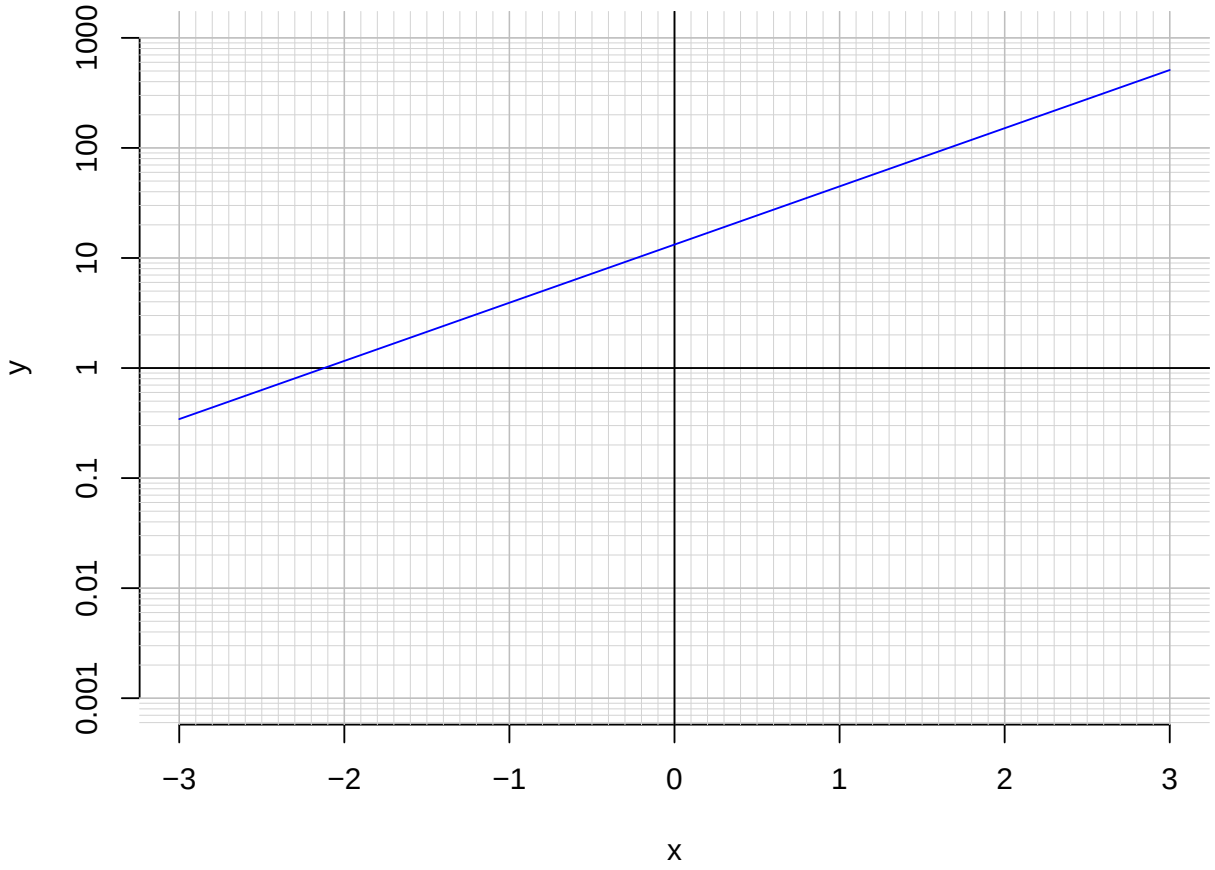
1. Graph $y = 2^{x-3} - 5$ and $y = \log_2(x-3) - 4$ on the grids below. Also, draw any asymptotes with dotted lines.



2. Write (but do not evaluate) the solution to the equation below by writing a logarithmic expression.

$$11 = \left(\frac{4}{5}\right) \cdot 2^{3t/7}$$

3. An exponential function $f(x) = 13.2 \cdot e^{1.22x}$ is graphed below on a semi-log plot.



a. Using the plot above, evaluate $f(2.8)$.

b. Express $f^{-1}(x)$, the inverse of f.

c. Using the plot above, evaluate $f^{-1}(5)$.